



AVOX Systems

SERVICE INFORMATION LETTER

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OXYGEN - ATA CHAPTER 35

VENDOR CODE: 53655

TEST DATA SHEET FOR P/N 28000 Series Diluter Demand Oxygen Regulator Assembly

1. BACKGROUND

- A. Overhaul Manual 35-11-24 specifies the tests that must be passed in order to return a unit to service. This SIL provides a standardized form on which to record the results of the required functional tests. This form will be incorporated into the Overhaul Manual at the next revision.
- B. You are authorized to copy the form on pages 2 and 3. If you copy the form on pages 2 and 3, you must copy all of the form.
- C. Use this form only for the AVOX Systems component printed on the form. Do not use this form for any other AVOX Systems components or for any components of another company.

2. EFFECTIVITY

- A. Aircraft
The Test Data Sheet on pages 2 and 3 can be used for all units whether removed from any aircraft or from spares inventory.
- B. This SIL applies to P/N 28000 Series Diluter Demand Oxygen Regulator Assemblies only.

3. MATERIALS

The only material required by this SIL is the Test Data Sheet on pages 2 and 3.

4. ACCOMPLISHMENT OF SIL

- A. Make complete copies of the Test Data Sheet on pages 2 and 3.
- B. Use a copy of the Test Data Sheet from pages 2 and 3 to record the results of tests whenever a P/N 28000 Series Diluter Demand Oxygen Regulator Assembly is tested.

5. TO CONTACT AVOX SYSTEMS:

Use the contact information below to get a copy of an Overhaul Manual or the revision status of a publication. Give the AVOX Systems part number and the aircraft model when you request an Overhaul Manual copy.

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OVERHAUL MANUAL 35-11-24
TEST DATA SHEET A
28000 Series Diluter Demand Oxygen Regulator Assembly

Tested by: _____

Date: _____

Part Number: 28000-_____

Inspected by: _____

Date: _____

Serial Number: _____

Refer to the Inspection/Check, Testing, and Trouble Shooting sections of OVERHAUL MANUAL 35-11-24.**4. Inspection/Check**

Inspect the assembly and components for evidence of external damage, scoring, thread damage, and overall condition. Verify no evidence of deterioration to elastomer components. Verify that any parts that are no longer serviceable have been replaced.

☐ FAIL ☐ PASS**8. Regulator Testing****A. Altitude Compensated Air Enrichment**

All Indications Are Within the
Range of Figure 702.

☐ FAIL ☐ PASS**8. Regulator Testing****B. Flow Suction - Normal Dilution**

Inlet Pressure (psig)	Flow (lpm)	Vacuum (inches of H ₂ O)	
60	100	2.0 MAX	☐ FAIL ☐ PASS
60	120	2.7 MAX	☐ FAIL ☐ PASS

8. Regulator Testing**C. Flow Suction - 100% Oxygen**

Inlet Pressure (psig)	Flow (lpm)	Vacuum (inches of H ₂ O)	
60	80	1.7 MAX	☐ FAIL ☐ PASS

8. Regulator Testing**D. Emergency Pressure**

Emergency Lever Position	Inlet Pressure (psig)	Flow (lpm)	Record Value (inches of H ₂ O)	Manometer Indicates an Increase of 1.5 in. Minimum in the "ON" Position
"OFF"	60	10		
"ON"	60	10		☐ FAIL ☐ PASS

8. Regulator Testing**E. Supply Valve Leakage**

Inlet Pressure (psig)	No Leakage Allowed
75	☐ FAIL ☐ PASS

NOTE: FLOWS ARE GIVEN FOR OXYGEN TEST GAS @ NTPD.
APPLY THE APPROPRIATE CORRECTION FACTOR IF ANOTHER MEDIUM IS USED.



OVERHAUL MANUAL 35-11-24
TEST DATA SHEET B
28000 Series Diluter Demand Oxygen Regulator Assembly

Tested by: _____

Date: _____

Part Number: 28000-_____

Inspected by: _____

Date: _____

Serial Number: _____

8. Regulator Testing
F. Outlet Leakage

Inlet Pressure (psig)	MAX Allowed Leakage 10 cc/min.
60	☐ FAIL ☐ PASS ☐

8. Regulator Testing
G. Inward Leakage

Vacuum (inches of H ₂ O)	MAX Allowed Leakage 0.2 lpm
10	☐ FAIL ☐ PASS ☐

8. Regulator Testing
H. Outward Leakage

Vacuum (inches of H ₂ O)	MAX Allowed Leakage 120 cc/min.
17	☐ FAIL ☐ PASS ☐

8. Regulator Testing
I. Flow Indicator

Vacuum (inches of H ₂ O)	MAX Allowed Leakage 0.2 lpm
10	☐ FAIL ☐ PASS ☐

8. Regulator Testing
J. Panel Lighting

Configuration	Applied Voltage	Verify that Lamps Glow	Dielectric Test Voltage	100 Mega-ohms Minimum Resistance
-01, -03, -09	5	☐ FAIL ☐ PASS ☐	500 VDC	☐ FAIL ☐ PASS ☐
-07, -15, -17	28	☐ FAIL ☐ PASS ☐	500 VDC	☐ FAIL ☐ PASS ☐

NOTE: FLOWS ARE GIVEN FOR OXYGEN TEST GAS @ NTPD.
APPLY THE APPROPRIATE CORRECTION FACTOR IF ANOTHER MEDIUM IS USED.